

Application No. 09/637,456
Amendment Dated November 23, 2005
Reply to Office Action of July 8, 2005

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Cancel claims 1-8.

9. (Presently Amended) A method of compressing color pixels in a graphics processor system comprising;

defining a plurality of tiles of data;

defining a tile format table containing a status entry for each of said plurality compressing each of said tiles, wherein each tile is compressed if it is determined that compression results in a smaller tile size;

setting said status entry for each of said tiles in said tile format table, wherein said status entry indicates the memory size of the length in words of each of said tiles after compression, with a full size indicating a non-compressed tile;

storing said tiles in a memory; and

retrieving said tiles from said memory whereby said status entry indicating memory size is used to determine whether said tiles need to be decompressed at time of retrieval;

wherein each of said tiles is compressed using one of a plurality of compression methods;

wherein each of said tiles is comprised of pixels having pixel color components; and

wherein one of said compression methods comprises entropy encoded differences between adjacent pixel color components, in which unique color or component values in a tile are extracted and sorted by minimal difference, are entropy encoded, and are indexed per pixel in said tile.

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10. (Original) The method of claim 9 in which the assignment of entropy codes per tile is based on the frequency of occurrence of difference values within said tile.

11. (Original) The method of claim 10 in which multiple component difference codes are combined into a single code per pixel.

12. (canceled)

13. (Previously presented) The method of claim 9 in which said unique colors and components are sorted in a manner that minimizes a size of pixel difference encoding and minimizes a size of color and component difference encoding.

Cancel claims 14 and 15.